

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
ALEXANDER COUNTY --- 2.6 ESE CAIRO [36.99, -89.14], 2.4 SE CAIRO [36.98, -89.14], 1.3 N CAIRO [37.02, -89.18], 1.7 N CAIRO [37.02, -89.18]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/07/11 20:00 CST		0	Source: River/Stream Gage
The Ohio River fell below flood stage at Cairo for the first time since February 27. The flooding in June was relatively very minor. Some low-lying fields and parks along the river were flooded.				
ALEXANDER COUNTY --- THEBES [37.22, -89.47], 2.6 NNW GALE [37.29, -89.46], 1.0 E FAYVILLE [37.17, -89.41], 0.8 W FAYVILLE [37.17, -89.45]				
	06/01/11 00:00 CST		0.10M	Flood (due to Heavy Rain)
	06/30/11 23:59 CST		50K	Source: River/Stream Gage
The Mississippi River remained above flood stage through the month of June. At the Thebes river gage, there were two separate crests. The river crested at 37.53 feet on the 1st and at 37.43 feet on the 23rd. Both of these crests represented moderate flooding. Though the flooding in June was considerably less severe than the preceding two months, a small number of homes and businesses remained underwater from East Cape Girardeau to the Miller City area, including McClure. Illinois Route 3 was on the verge of being closed, as was Illinois Route 146 near the Cape Girardeau bridge. Businesses near the intersection of Highways 3 and 146 remained flooded. Other buildings remained sandbagged, and at least one house's foundation was compromised. The Mississippi River remained too high to raise any of the locks and gates along the levees. As a result, the water from recent heavy rains as well as lingering floodwater from May remained trapped inland.				
GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 2.9 SSW SHAWNEETOWN [37.66, -88.15], 2.8 E BOWLESVILLE [37.67, -88.17], 0.9 SW SHAWNEETOWN [37.69, -88.14]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/01/11 06:00 CST		0	Source: River/Stream Gage
The Ohio River fell below flood stage at Shawneetown for the first time since April 11. The flooding in June was relatively very minor. Some low-lying fields were flooded.				
JACKSON COUNTY --- 2.7 W MURPHYSBORO [37.77, -89.38], 3.0 W MURPHYSBORO [37.77, -89.38], 1.1 WSW MT CARBON [37.74, -89.35], 1.4 WNW MT CARBON [37.76, -89.36]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/02/11 09:00 CST		0	Source: River/Stream Gage
The Big Muddy River fell below flood stage at Murphysboro. The flooding was very minor. Some low-lying fields near the river were flooded.				
JACKSON COUNTY --- GRAND TOWER [37.63, -89.50], 0.7 W GRAND TOWER [37.63, -89.51], 3.1 SSW GRAND TOWER [37.59, -89.52], 2.8 S GRAND TOWER [37.59, -89.51]				
	06/01/11 00:00 CST		50K	Flood (due to Heavy Rain)
	06/21/11 08:00 CST		50K	Source: Other Federal Agency
The Mississippi River flooding in June was relatively minor compared to the April and May flooding. Several homes remained flooded, along with at least 10,000 acres of farmland. Standing water was observed on both sides of Route 3 in many areas. Several county roads remained closed. The Mississippi River remained too high to raise any of the locks and gates along the levees. As a result, the water from recent heavy rains as well as lingering floodwater from May remained trapped inland.				
MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 1.6 E METROPOLIS [37.15, -88.70], 1.8 ESE METROPOLIS [37.14, -88.70], 0.4 SSW BROOKPORT [37.11, -88.63]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/02/11 14:00 CST		0	Source: River/Stream Gage
The Ohio River fell below flood stage at Brookport for the first time since February 28. The flooding in June was relatively very minor. Some low-lying fields and parks along the river were flooded.				
PULASKI COUNTY --- OLMSTED [37.18, -89.08], 1.7 NE AMERICA [37.15, -89.10], 1.9 NE AMERICA [37.15, -89.09], 0.6 ESE OLMSTED [37.18, -89.07]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/05/11 17:00 CST		0	Source: River/Stream Gage
The Ohio River fell below flood stage at Grand Chain for the first time since February 27. The flooding in June was relatively very minor. Some low-lying fields and woods along the river were flooded.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
UNION COUNTY --- 3.2 SW WOLF LAKE [37.47, -89.47], 2.9 WNW ALDRIDGE [37.56, -89.52], 1.8 WNW ALDRIDGE [37.56, -89.50], 2.0 SW WOLF LAKE [37.48, -89.46]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/25/11 08:00 CST		50K	Source: Other Federal Agency
The Mississippi River flooding in June was relatively minor compared to the April and May flooding. Many low-lying fields remained flooded. Standing water was observed on both sides of Route 3 in many areas. The Mississippi River remained too high to raise any of the locks and gates along the levees. As a result, the water from recent heavy rains as well as lingering floodwater from May remained trapped inland.				
WABASH COUNTY --- 1.8 S PATTON [38.45, -87.75], 0.9 ENE MT CARMEL [38.42, -87.75], 1.4 E MT CARMEL [38.42, -87.75], 2.5 SSE PATTON [38.45, -87.73]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/06/11 17:00 CST		20K	Source: River/Stream Gage
Minor flooding continued along the Wabash River from late May. Some low-lying fields along the river were flooded. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Farmers moved livestock to higher ground. Many river cabins became inaccessible.				
WHITE COUNTY --- MAUNIE [38.03, -88.05], 1.2 E MAUNIE [38.03, -88.03], 2.0 SSE RISING SUN [37.97, -88.01], 1.3 S RISING SUN [37.98, -88.03]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/07/11 15:00 CST		0	Source: River/Stream Gage
Minor flooding continued along the Wabash River from late May. Some low-lying fields along the river were flooded.				
The weather pattern began to quiet down after the historic spring river flooding. With high pressure generally in control of the weather, the first half of June was very warm and dry. At the beginning of June, a few rivers were still above flood stage from April and May's major and record-setting floods.				
GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13]				
	06/05/11 10:00 CST		0.10M	Lightning
	06/05/11 10:00 CST		0	Source: Newspaper
A lightning strike was suspected as the cause of a fertilizer warehouse fire in Old Shawneetown. The building was a total loss. Lightning was the prime suspect because a power pole next to the building appeared to have been struck.				
A mesoscale convective system that originated over the Mid-Mississippi Valley moved east-southeast across southern Illinois. The system moved along the northern periphery of a 500 mb ridge that was centered over the Tennessee Valley and southern Plains.				
PERRY COUNTY --- DU QUOIN [38.02, -89.23]				
	06/11/11 15:25 CST		0	Hail (1.00 in)
	06/11/11 15:25 CST		0	Source: Trained Spotter
Scattered thunderstorms accompanied a cold front as it moved southeast across southern Illinois. One of the storms produced large hail.				
WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08]				
	06/14/11 08:10 CST		80K	Lightning
	06/14/11 08:10 CST		0	Source: Newspaper
A local television station was knocked off the air for about eight hours by a lightning strike. Besides damaging the broadcast equipment, the lightning disrupted internet and phone service.				
WILLIAMSON COUNTY --- MARION [37.73, -88.93]				
	06/14/11 08:20 CST		50K	Lightning
	06/14/11 08:20 CST		0	Source: Newspaper
In Marion, a lightning strike shattered an antenna into three pieces. The antenna was located on top of a tower at the sheriff's department. The sheriff office's 911 telephone capability and radio system were both damaged.				
High pressure over the Great Lakes and low pressure over the central Plains resulted in a southeast wind flow of warmer and more unstable air. Numerous thunderstorms occurred near the leading edge of the warmer and more unstable air.				
JOHNSON COUNTY --- GOREVILLE [37.55, -88.97]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/15/11 13:45 CST		0	Hail (1.00 in)
	06/15/11 13:45 CST		0	Source: Law Enforcement

Scattered thunderstorms developed along and ahead of a cold front. The front extended from a low pressure center over the Great Lakes region southward across Illinois into western Tennessee.

MASSAC COUNTY --- ROUND KNOB [37.25, -88.75]

06/17/11 06:18 CST	10K	Hail (1.75 in)
06/17/11 06:25 CST	0	Source: Trained Spotter

Most of the hailstones were half-dollar size, but a number of stones measured 1.75 inches in diameter. Some dents were observed in vehicles.

FRANKLIN COUNTY --- SESSER [38.10, -89.05]

06/17/11 12:42 CST	0	Hail (1.00 in)
06/17/11 12:46 CST	0	Source: Emergency Manager

Copious amounts of quarter-size hail covered the ground.

JEFFERSON COUNTY --- WALTONVILLE [38.22, -89.05], 0.5 N BAKERVILLE [38.26, -88.90]

06/17/11 12:44 CST	5K	Thunderstorm Wind (EG 52 kt)
06/17/11 12:50 CST	0	Source: Emergency Manager

Trees were down near Waltonville and along Highway 37 south of Mount Vernon.

FRANKLIN COUNTY --- WEST CITY [38.00, -88.93]

06/17/11 12:57 CST	0	Thunderstorm Wind (EG 50 kt)
06/17/11 12:57 CST	0	Source: Emergency Manager

Wind gusts from 55 to 60 mph were estimated along the leading edge of a thunderstorm gust front.

WILLIAMSON COUNTY --- HERRIN [37.80, -89.03]

06/17/11 13:00 CST	0	Heavy Rain
06/17/11 13:20 CST	0	Source: Law Enforcement

Some localized street flooding occurred in low areas.

WAYNE COUNTY --- FAIRFIELD [38.38, -88.37]

06/17/11 13:20 CST	4K	Thunderstorm Wind (EG 50 kt)
06/17/11 13:20 CST	0	Source: Law Enforcement

Tree limbs were down on power lines.

WILLIAMSON COUNTY --- HERRIN [37.80, -89.03]

06/17/11 13:20 CST	0	Hail (0.88 in)
06/17/11 13:20 CST	0	Source: Law Enforcement

SALINE COUNTY --- MITCHELLSVILLE [37.65, -88.53]

06/17/11 14:08 CST	0	Hail (0.75 in)
06/17/11 14:08 CST	0	Source: Trained Spotter

A round of early morning storms was caused by increasing southwest low-level winds that brought warmer and more unstable air into the region. During the afternoon, numerous thunderstorms occurred as strong southwest low-level winds brought warmth and moisture into southern Illinois. Daytime heating further destabilized the atmosphere. A 500 mb shortwave trough moving eastward across Missouri provided support for the storms, some of which produced marginally severe hail and damaging winds.

WABASH COUNTY --- 1.0 W ALLENDALE [38.53, -87.74]

06/18/11 02:25 CST	0	Hail (0.88 in)
06/18/11 02:28 CST	0	Source: Trained Spotter

The hail lasted three minutes.

GALLATIN COUNTY --- RIDGWAY [37.78, -88.27]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/18/11 04:30 CST		4K	Thunderstorm Wind (EG 50 kt)
	06/18/11 04:30 CST		0	Source: Public

A large pine tree was blown over. Another small tree was blown down. A dog pen and lawn furniture were blown over.

PERRY COUNTY --- DU QUOIN [38.02, -89.23]

06/18/11 04:48 CST	0	Hail (0.75 in)
06/18/11 04:48 CST	0	Source: Law Enforcement

JEFFERSON COUNTY --- 1.8 NE TEXICO [38.45, -88.88]

06/18/11 07:03 CST	10K	Lightning
06/18/11 07:03 CST	0	Source: Newspaper

An oil tank battery fire was quickly put out after it was struck by lightning.

Numerous thunderstorms developed in the vicinity of a warm front that was located over central Illinois and central Indiana. The storms organized into a mesoscale convective system that propagated southward across southern Illinois.

PERRY COUNTY --- PINCKNEYVILLE [38.08, -89.38], DU QUOIN [38.02, -89.23]

06/19/11 02:30 CST	0	Heavy Rain
06/19/11 04:00 CST	0	Source: Unknown

Flooding of some low-lying areas was reported.

PERRY COUNTY --- 2.0 W DU QUOIN [38.02, -89.27]

06/19/11 02:45 CST	0	Thunderstorm Wind (MG 72 kt)
06/19/11 02:45 CST	0	Source: Emergency Manager

This gust to 83 mph was measured just west of town by a trained spotter.

PERRY COUNTY --- 1.2 W CLINCH [37.97, -89.25], 1.5 NW OLD DUQUOIN [37.99, -89.20]

06/19/11 02:48 CST	0.55M	Tornado (EF1, L: 3.22 mi , W: 250 yd)
06/19/11 02:51 CST	1	Source: NWS Storm Survey

A tornado crossed through the DuQuoin State Fairgrounds, where damage was estimated around one-half million dollars. Dozens of large trees were snapped or uprooted. Several small camper trailers were overturned. One unoccupied trailer was demolished. Three persons were trapped inside a camper at the DuQuoin State Fairgrounds. They were extricated by fire and rescue personnel. One person sustained minor injuries in an overturned trailer. Several homes lost some shingles and sustained mainly minor damage from fallen trees. At the state fairgrounds, a shower/restroom facility and the Farm Service building were destroyed by falling trees. Large hvac units were lifted off the roof of the main arena building and overturned. The doors of the building were damaged. A couple of uprooted trees ruptured gas lines. The peak winds were estimated near 100 mph. The average path width was 200 yards.

FRANKLIN COUNTY --- ROYALTON [37.87, -89.12]

06/19/11 02:50 CST	75K	Thunderstorm Wind (EG 61 kt)
06/19/11 02:50 CST	0	Source: Emergency Manager

A silo was destroyed, and several barns and outbuildings were damaged.

FRANKLIN COUNTY --- 3.0 NW BENTON [38.03, -88.96], 2.0 NE FRISCO [38.14, -88.75]

06/19/11 02:58 CST	0.18M	Thunderstorm Wind (EG 83 kt)
06/19/11 03:10 CST	0	Source: NWS Storm Survey

A microburst with 95 mph winds caused extensive damage along a path about 1.25 miles wide and 18 miles long. The damage path started in the general vicinity of Rend Lake Dam and continued northeast across the Jefferson County border. Hundreds of trees were uprooted or snapped. A few utility poles were broken by falling trees. About a dozen homes were damaged, primarily from falling trees. Several barns and garages were destroyed or heavily damaged. One of the greatest concentrations of damage was at Lake Benton.

FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92]

06/19/11 03:01 CST	0.20M	Thunderstorm Wind (MG 70 kt)
06/19/11 03:01 CST	0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Numerous trees were blown down across the city. The falling trees caused major damage to at least one vehicle. Several house roofs were damaged. Extensive damage occurred to a building that houses several businesses. A northwest corner wall was blown out. The sheet metal was torn away from the building, and a door was blown off. A loading dock roof was blown off another building and onto a vehicle. Numerous power lines were down. Winds were recorded at 80 mph.				

JEFFERSON COUNTY --- 5.4 ESE SPRING GARDEN [38.13, -88.76], 4.9 S BELLE RIVE [38.16, -88.72]

06/19/11 03:10 CST	20K	Thunderstorm Wind (EG 83 kt)
06/19/11 03:13 CST	0	Source: NWS Storm Survey

This microburst continued northeast from Franklin County into southeast Jefferson County. Wind gusts were estimated up to 95 mph. Many trees were snapped or uprooted. A couple of roads were blocked by downed trees, including Illinois Highway 142. A few utility poles were broken by falling trees.

JEFFERSON COUNTY --- MT VERNON [38.32, -88.90], SPRING GARDEN [38.17, -88.85]

06/19/11 03:10 CST	0	Heavy Rain
06/19/11 05:10 CST	0	Source: Newspaper

Several secondary roads were flooded with several inches of water.

ALEXANDER COUNTY --- MC CLURE [37.32, -89.43]

06/19/11 03:30 CST	0	Heavy Rain
06/19/11 04:20 CST	0	Source: Trained Spotter

Water was over the road along Illinois Route 3 and County Road 4.

MASSAC COUNTY --- METROPOLIS [37.15, -88.73]

06/19/11 04:15 CST	0	Heavy Rain
06/19/11 04:58 CST	0	Source: Trained Spotter

Rainfall from the storm was 1.35 inches. The storm lasted less than an hour.

A long-lived bow echo raced eastward across parts of southern Illinois at 60 mph. An extensive rain shield in the wake of the fast-moving line of storms supported development of a cold pool that sustained its growth. A corridor of moderate instability existed in advance of the storms. A 40 to 50-knot southwesterly low-level jet veered more westerly, further aiding in the eastward movement of the bow echo. A westerly rear-inflow jet around 70 knots developed attendant to the developing bow echo. Vertically veering low-level winds promoted the formation of an isolated tornado along the leading edge of the bow echo.

PULASKI COUNTY --- MOUND CITY [37.08, -89.17]

06/19/11 15:20 CST	0	Hail (1.00 in)
06/19/11 15:20 CST	0	Source: Emergency Manager

An isolated severe thunderstorm erupted during the hottest and most unstable time of the day. A weak mid-level impulse crossing the Mid-Mississippi Valley may have enhanced large scale ascent enough to initiate the storm.

WHITE COUNTY --- NORRIS CITY [37.98, -88.32]

06/21/11 14:38 CST	0	Thunderstorm Wind (EG 52 kt)
06/21/11 14:38 CST	0	Source: Trained Spotter

A wind gust to 60 mph was estimated by a trained spotter.

WHITE COUNTY --- CARMi [38.08, -88.17]

06/21/11 14:53 CST	0	Thunderstorm Wind (MG 53 kt)
06/21/11 14:53 CST	0	Source: Broadcast Media

A trained spotter measured a wind gust to 61 mph.

FRANKLIN COUNTY --- 2.8 SW SESSER [38.08, -89.09], 2.3 NW WHITTINGTON [38.10, -88.93]

06/21/11 15:30 CST	0.25M	Thunderstorm Wind (EG 78 kt)
06/21/11 15:36 CST	1	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A microburst with peak winds around 90 mph caused major damage in Sesser. At least 100 homes were damaged in the small community, mostly by falling trees. The storm snapped or uprooted hundreds of trees, including about 100 in Sesser. At least eight utility poles were broken by fallen trees. A building under construction in Sesser was levelled. Some homes and businesses in and near Sesser lost shingles. Due to power outages and debris on roads, a curfew was issued for Sesser. All of the damage was in the northern part of town. An 18-foot camper at Wayne Fitzgerald campground on Rend Lake was overturned, injuring one person. In Sesser, a man removing a tree from a roof was injured during the cleanup (indirect injury). The path length of the microburst was about five miles. The path width was a couple of miles.				

GALLATIN COUNTY --- JUNCTION [37.72, -88.23]

06/21/11 15:30 CST	0	Heavy Rain
06/21/11 15:55 CST	0	Source: Unknown

Four to five inches of water was running across Highway 13.

PERRY COUNTY --- 2.3 NW CLINCH [37.99, -89.26], 2.1 SE DU QUOIN [38.00, -89.21], 1.3 ENE DU QUOIN [38.02, -89.21], 0.6 W ST JOHNS [38.03, -89.26]

06/21/11 18:15 CST	0	Flash Flood (due to Heavy Rain)
06/21/11 19:20 CST	0	Source: Emergency Manager

Heavy rain and street flooding was reported.

PERRY COUNTY --- DU QUOIN [38.02, -89.23]

06/21/11 18:35 CST	0	Hail (0.88 in)
06/21/11 18:35 CST	0	Source: Trained Spotter

FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92], BENTON [38.00, -88.92]

06/21/11 18:58 CST	0	Funnel Cloud
06/21/11 18:58 CST	0	Source: Trained Spotter

Trained spotters reported rotating funnel clouds in the area near West Frankfort and Benton.

Numerous thunderstorms moved across southern Illinois in a very moist and moderately unstable air mass. The storms attained some organization as a result of deep-layer shear values around 40 knots, coupled with enhanced ascent ahead of a mesoscale vorticity center moving northeastward from southern Missouri. A cold front moving across Missouri further aided storm development.

JACKSON COUNTY --- 2.6 W MURPHYSBORO [37.77, -89.38], 2.8 W MURPHYSBORO [37.76, -89.38], 1.3 W MT CARBON [37.75, -89.35], 1.6 WNW MT CARBON [37.76, -89.36]

06/23/11 03:00 CST	0	Flood (due to Heavy Rain)
06/30/11 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River inundated low-lying fields, woods, and parts of a park.

ALEXANDER COUNTY --- 3.0 ESE CAIRO [36.98, -89.13], 2.5 SE CAIRO [36.98, -89.14], 0.9 ESE CAIRO [36.99, -89.17], 1.2 E CAIRO [37.00, -89.16]

06/23/11 09:00 CST	0	Flood (due to Heavy Rain)
06/30/11 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Ohio River inundated some low-lying fields, parks, and river access roads.

WHITE COUNTY --- 1.1 SSE CARMi MUNI ARPT [38.09, -88.15], 1.8 ESE CARMi [38.07, -88.14], 1.4 SE CARMi [38.07, -88.15], 1.0 ENE CARMi [38.08, -88.15]

06/26/11 08:00 CST	0	Flood (due to Heavy Rain)
06/30/11 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Little Wabash River inundated low-lying woods and fields.

FRANKLIN COUNTY --- 1.3 S ZEIGLER JCT [37.90, -89.02], 1.6 SSE ZEIGLER [37.88, -89.04], 1.4 WSW PLUMFIELD [37.87, -89.02], 1.3 NNW PLUMFIELD [37.90, -89.01]

06/26/11 09:00 CST	0	Flood (due to Heavy Rain)
06/30/11 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River inundated low-lying fields and woodlands.

WABASH COUNTY --- 1.0 SW PATTON [38.47, -87.76], 1.2 SSW PATTON [38.46, -87.75], 1.4 E MT CARMEL [38.42, -87.74], 0.9 ENE MT CARMEL [38.42, -87.75]

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	06/27/11 09:00 CST		0	Flood (due to Heavy Rain)
	06/30/11 23:59 CST		50K	Source: River/Stream Gage

Minor flooding of the Wabash River inundated some low-lying woods and fields. A few local river roads were closed by high water. Some backwater from the Wabash River raised levels on tributary creeks such as the Bon Pas River. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Agricultural losses were significant. Farmers moved livestock to higher ground.

WHITE COUNTY --- MAUNIE [38.03, -88.05], 0.6 ENE MAUNIE [38.03, -88.04], 2.0 E MAUNIE [38.03, -88.01], 0.6 N RISING SUN [38.01, -88.03]				
	06/27/11 10:00 CST		0	Flood (due to Heavy Rain)
	06/30/11 23:59 CST		20K	Source: River/Stream Gage

Minor flooding along the Wabash River flooded some low-lying fields.

An upper level high that was over the region during early June retrograded west during the middle of the month. This allowed for disturbances in the northwest flow aloft to bring multiple rounds of precipitation. Showers and thunderstorms during this time were slow-moving and capable of torrential downpours. Rainfall ranged from two to almost five inches in many locations. Another series of mesoscale convective systems late in the month produced one to three inches with locally higher amounts. Rivers rose back above flood stage in response to the rainfall.

MASSAC COUNTY --- ROUND KNOB [37.25, -88.75]				
	06/25/11 07:37 CST		0	Hail (1.00 in)
	06/25/11 07:37 CST		0	Source: Trained Spotter

Widely scattered thunderstorms developed as the leading edge of warmer and more humid air advanced into the region. Isolated large hail occurred.

JEFFERSON COUNTY --- MT VERNON [38.32, -88.90], WALTONVILLE [38.22, -89.05]				
	06/25/11 23:30 CST		50K	Heavy Rain
	06/26/11 05:30 CST		0	Source: Trained Spotter

A trained spotter measured 4.5 inches of rain, most of which fell within six hours. A hole several feet wide developed near the base of a levee on Waltonville Lake. The hole was due to a weakness in the levee, possibly the equivalent of a sand boil. Due to water gushing from the hole, Illinois Route 148 was closed. The water rose a few inches over the highway. To ease pressure on the weak spot, the lake was intentionally drained by excavating two gaps in the levee.

SALINE COUNTY --- HARRISBURG [37.73, -88.55]				
	06/26/11 00:15 CST		0	Heavy Rain
	06/26/11 08:30 CST		0	Source: Public

The general public reported 3.8 inches of rain in about 9 hours.

WILLIAMSON COUNTY --- 3.3 NW WOLF CREEK [37.65, -89.10], HERRIN [37.80, -89.03]				
	06/26/11 01:10 CST		0	Heavy Rain
	06/26/11 04:30 CST		0	Source: Trained Spotter

Standing water was over several low-lying streets in Herrin. A trained spotter south of Carterville near Devils Kitchen Lake measured 5.2 inches of rain. Most of this rain fell in a three-hour period.

JACKSON COUNTY --- CARBONDALE [37.72, -89.22]				
	06/26/11 01:45 CST		0	Heavy Rain
	06/26/11 03:15 CST		0	Source: Emergency Manager

Emergency management personnel reported 3.19 inches fell within 90 minutes. There was standing water along some roadways. Many creeks and streams were at bankful or overflowing.

MASSAC COUNTY --- 2.0 SE NEW COLUMBIA [37.30, -88.75]				
	06/26/11 07:00 CST		0	Lightning
	06/26/11 07:00 CST	2	0	Source: Emergency Manager

Lightning struck a moving motorcycle on Interstate 24 near exit 27. The motorcycle crashed in the median. The two people on the motorcycle were taken to a hospital for treatment of minor injuries.

MASSAC COUNTY --- ROUND KNOB [37.25, -88.75], METROPOLIS [37.15, -88.73]				
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Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/26/11 07:00 CST		0	Heavy Rain
	06/26/11 08:14 CST		0	Source: Trained Spotter

Several roads were closed in Metropolis. Water was up to two feet deep on U.S. Highway 45. A trained spotter near Round Knob measured about two inches during the morning, with lots of standing water in fields.

Numerous thunderstorms produced locally heavy rainfall. The storms were supported by a warm front that extended east-northeast from the southern Plains across the Lower Ohio Valley. A 500 mb shortwave trough moved southeast from the Upper Mississippi Valley toward the Ohio Valley, further enhancing the strength of the mesoscale convective system.

MASSAC COUNTY --- UNIONVILLE [37.12, -88.55]

06/27/11 11:10 CST	3K	Thunderstorm Wind (EG 61 kt)
06/27/11 11:10 CST	0	Source: Trained Spotter

Numerous large tree limbs were blown down. A trained spotter estimated winds gusted from 60 to 70 mph.

POPE COUNTY --- NEW LIBERTY [37.12, -88.45], HAMLETSBURG [37.13, -88.43]

06/27/11 11:25 CST	15K	Thunderstorm Wind (EG 56 kt)
06/27/11 11:25 CST	0	Source: Trained Spotter

A shed was destroyed, numerous trees were uprooted, and large branches were blown down.

A mesoscale convective system intensified over the Lower Ohio Valley as it interacted with a moist and increasingly unstable atmosphere. The combination of daytime heating and an unstable southerly wind flow contributed to the intensification of the system, which exhibited bowing structures at times. Westerly winds of 40 to 45 knots in the mid levels of the atmosphere supported the acceleration of the bow echo across the region. Isolated wind damage accompanied the system.

INDIANA, Southwest

GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 1.0 NW EAST MT CARMEL [38.41, -87.74], 2.0 WSW EAST MT CARMEL [38.39, -87.76], 2.0 SW EAST MT CARMEL [38.38, -87.76]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/06/11 14:00 CST	20K	Source: River/Stream Gage

Minor flooding continued along the Wabash River from late May. Some low-lying fields along the river were flooded. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Farmers moved livestock to higher ground. Many river cabins became inaccessible.

POSEY COUNTY --- 0.5 NW NEW HARMONY [38.13, -87.94], 2.2 NNE NEW HARMONY [38.16, -87.91], 1.9 NNE NEW HARMONY [38.15, -87.91], 0.3 NNE NEW HARMONY [38.13, -87.93]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/07/11 15:00 CST	0	Source: River/Stream Gage

Minor flooding continued along the Wabash River from late May. Some low-lying fields along the river were flooded.

The weather pattern began to quiet down after the historic spring river flooding. With high pressure generally in control of the weather, the first half of June was very warm and dry. At the beginning of June, the Wabash River was still above flood stage from April and May's major and record-setting floods.

GIBSON COUNTY --- 3.5 N OWENSVILLE [38.32, -87.69]

06/05/11 09:00 CST	0	Hail (0.88 in)
06/05/11 09:00 CST	0	Source: Trained Spotter

VANDERBURGH COUNTY --- 1.0 W DARMSTADT [38.10, -87.60], 1.2 NW EARLE [38.09, -87.53]

06/05/11 09:20 CST	5K	Thunderstorm Wind (MG 58 kt)
06/05/11 09:20 CST	0	Source: Trained Spotter

Just west of Darmstadt, a wind gust to 67 mph was measured by a trained spotter. Elsewhere in northern Vanderburgh County, a tree limb fell onto a vehicle and broke a window.

VANDERBURGH COUNTY --- 0.5 W EVANSVILLE [37.98, -87.56]

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/05/11 09:30 CST		0	Hail (1.00 in)
	06/05/11 09:30 CST		0	Source: Broadcast Media
VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55], 1.4 SSE EVANSVILLE [37.96, -87.54]				
	06/05/11 09:37 CST		50K	Thunderstorm Wind (EG 52 kt)
	06/05/11 09:37 CST		0	Source: Public
A tree fell on a house, causing minor to moderate damage. Downed tree limbs knocked out power to about 5,000 customers. Most of the outages were on the east side of Evansville. Power lines were blown down.				
WARRICK COUNTY --- NEWBURGH [37.95, -87.42]				
	06/05/11 09:52 CST		0	Hail (0.75 in)
	06/05/11 09:52 CST		0	Source: Trained Spotter
Wind gusts up to 50 mph accompanied the hail.				
A mesoscale convective system that originated over the Mid-Mississippi Valley moved east-southeast across southwest Indiana. The system moved along the northern periphery of a 500 mb ridge that was centered over the Tennessee Valley and southern Plains.				
POSEY COUNTY --- 3.0 W POSEYVILLE [38.17, -87.84]				
	06/11/11 01:36 CST		0	Hail (0.88 in)
	06/11/11 01:36 CST		0	Source: Trained Spotter
SPENCER COUNTY --- ROCKPORT [37.88, -87.05]				
	06/11/11 01:38 CST		0	Thunderstorm Wind (MG 52 kt)
	06/11/11 01:38 CST		0	Source: Trained Spotter
A trained spotter measured a very brief wind gust to 60 mph associated with an outflow boundary. Other sustained gusts were from 40 to 45 mph. No damage was reported.				
A loosely-organized cluster of thunderstorms was associated with a cold front that extended from northern Illinois to southwest Missouri. A few of the storms produced strong winds and hail up to the size of nickels.				
SPENCER COUNTY --- 1.5 SW DALE [38.15, -87.00], DALE [38.17, -86.98]				
	06/15/11 17:23 CST		60K	Thunderstorm Wind (EG 61 kt)
	06/15/11 17:24 CST		0	Source: Trained Spotter
A utility pole was broken. Road signs were blown away at the intersection of Highway 62 and U.S. Highway 231. A temporary mobile cable transmission tower was blown over.				
SPENCER COUNTY --- DALE [38.17, -86.98]				
	06/15/11 17:25 CST		0	Hail (0.75 in)
	06/15/11 17:25 CST		0	Source: Trained Spotter
PIKE COUNTY --- STENDAL [38.27, -87.15]				
	06/15/11 18:07 EST		40K	Thunderstorm Wind (EG 56 kt)
	06/15/11 18:07 EST		0	Source: Trained Spotter
The roof of a house was damaged, along with the porch roof. Branches were blown down. An auto was struck by large tree branches and severely damaged.				
Scattered thunderstorms developed along and ahead of a cold front. The front extended from a low pressure center over the Great Lakes region southward across Illinois into western Tennessee.				
PIKE COUNTY --- 1.8 NE STENDAL [38.29, -87.13]				
	06/18/11 02:57 EST		0	Hail (0.75 in)
	06/18/11 02:57 EST		0	Source: Trained Spotter
Numerous thunderstorms developed in the vicinity of a warm front that was located over central Illinois and central Indiana. The storms organized into a mesoscale convective system that propagated southward across southwest Indiana.				
POSEY COUNTY --- MT VERNON [37.93, -87.90], 2.0 E MT VERNON [37.93, -87.86]				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/19/11 04:13 CST		0	Thunderstorm Wind (EG 61 kt)
	06/19/11 04:17 CST		0	Source: Trained Spotter

A wind gust to 61 mph was measured by a trained spotter two miles east of Mount Vernon. In Mount Vernon, a television station's weather spotter estimated a wind gust to 70 mph.

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

06/19/11 04:20 CST	0	Heavy Rain
06/19/11 06:30 CST	0	Source: Unknown

There were several reports of urban and small stream flooding around the county.

VANDERBURGH COUNTY --- 4.1 SSE SMYTHE [37.94, -87.45], 1.2 SSW SMYTHE [37.98, -87.49]

06/19/11 04:27 CST	3K	Thunderstorm Wind (MG 58 kt)
06/19/11 04:30 CST	0	Source: Trained Spotter

On the east side of Evansville, a trained spotter measured a wind gust to 67 mph. Power lines were blown down near the community of Angel Mounds, which is in the southeast corner of the county. A trained spotter there estimated the wind gusted to 65 mph. There were a couple of measured wind gusts to 55 mph on the north and northeast sides of Evansville.

SPENCER COUNTY --- ROCKPORT [37.88, -87.05]

06/19/11 04:59 CST	0	Thunderstorm Wind (MG 57 kt)
06/19/11 04:59 CST	0	Source: Trained Spotter

A wind gust to 66 mph was measured by a trained spotter. There were small tree limbs down.

SPENCER COUNTY --- ST MEINRAD [38.17, -86.82]

06/19/11 05:05 CST	5K	Thunderstorm Wind (EG 52 kt)
06/19/11 05:05 CST	0	Source: Trained Spotter

Several small trees were blown down.

A long-lived bow echo raced eastward across parts of southwest Indiana at 50 mph. An extensive rain shield in the wake of the fast-moving line of storms supported development of a cold pool that sustained its growth. A corridor of moderate instability existed in advance of the storms. A 40 to 50-knot southwesterly low-level jet veered more westerly, further aiding in the eastward movement of the bow echo. A westerly rear-inflow jet around 70 knots developed attendant to the developing bow echo.

PIKE COUNTY --- PETERSBURG [38.50, -87.28], 3.9 ENE PETERSBURG [38.53, -87.22], 3.2 NNE PETERSBURG [38.54, -87.25], 1.1 N PETERSBURG [38.52, -87.28]

06/25/11 11:15 EST	10K	Flood (due to Heavy Rain)
06/30/11 23:59 EST	20K	Source: River/Stream Gage

Minor flooding of the White River inundated bottomland fields and woodlands. County Road 250 West from State Road 56 was flooded and blocked vehicle access to Dodge City. About a dozen Pike County roads were flooded.

GIBSON COUNTY --- HAZLETON [38.48, -87.53], 1.2 NNW HAZLETON [38.49, -87.54], 0.5 N GIRO [38.51, -87.47], 0.3 SE GIRO [38.50, -87.47]

06/25/11 23:59 CST	10K	Flood (due to Heavy Rain)
06/30/11 23:59 CST	30K	Source: River/Stream Gage

Minor flooding of the White River inundated bottomland fields and woodlands. High water affected residents in Pottsville river cabins. A few roads were flooded. Oil-stripped fields were flooded. Flood gates were installed at Hazleton. Floodwaters covered the Hazleton softball field.

GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 1.0 NW EAST MT CARMEL [38.41, -87.74], 2.0 WSW EAST MT CARMEL [38.39, -87.76], 1.9 SW EAST MT CARMEL [38.38, -87.76]

06/27/11 09:00 CST	0	Flood (due to Heavy Rain)
06/30/11 23:59 CST	50K	Source: River/Stream Gage

Minor flooding of the Wabash River inundated some low-lying woods and fields. A few local river roads were closed by high water. Some backwater from the Wabash River raised levels on tributary creeks. All oil field production ceased with the exception of pumping units on substructures. Access to these was by boat only. Agricultural losses were significant. Farmers moved livestock to higher ground.

POSEY COUNTY --- 0.6 NW NEW HARMONY [38.14, -87.94], 1.4 NNE NEW HARMONY [38.15, -87.92], 1.3 NNE NEW HARMONY [38.15, -87.92], 0.3 N NEW HARMONY [38.13, -87.93]

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/27/11 10:00 CST		0	Flood (due to Heavy Rain)
	06/30/11 23:59 CST		0	Source: River/Stream Gage

Minor flooding along the Wabash River flooded some low-lying fields.

An upper level high that was over the region during early June retrograded west during the middle of the month. This allowed for disturbances in the northwest flow aloft to bring multiple rounds of precipitation. Showers and thunderstorms during this time were slow-moving and capable of torrential downpours. Rainfall ranged from two to almost five inches in many locations. Another series of mesoscale convective systems late in the month produced one to three inches with locally higher amounts. Rivers rose back above flood stage in response to the rainfall.

WARRICK COUNTY --- 1.0 NW BOONVILLE [38.06, -87.28]

06/26/11 00:40 CST	10K	Thunderstorm Wind (EG 56 kt)
06/26/11 00:40 CST	0	Source: Emergency Manager

About a dozen trees were blown down at a country club on the northwest side of town.

WARRICK COUNTY --- BULLOCKTOW [37.98, -87.22]

06/26/11 00:45 CST	2K	Thunderstorm Wind (EG 56 kt)
06/26/11 00:45 CST	0	Source: NWS Storm Survey

At Bullocktown, several large tree limbs were blown down. Underpinning was blown out on two mobile homes. A window was reported to have been blown out of one mobile home. The average path width was about 1.5 miles. The path length was about one mile. The event occurred right near the Spencer County line.

SPENCER COUNTY --- GRANDVIEW [37.93, -86.98], MAXVILLE [38.00, -86.82]

06/26/11 01:07 CST	70K	Thunderstorm Wind (EG 70 kt)
06/26/11 01:16 CST	0	Source: NWS Storm Survey

A two-mile wide swath of damaging winds occurred in extreme southeast Spencer County. There was evidence of embedded areas of brief rotation or "gustnadoes," where wind speeds increased to around 80 mph, snapping large limbs and uprooting trees. A gustnado is a ground-based rotating column of air that is not rooted in the storm cloud. In Grandview, wind damage was mostly to trees and power lines. Some roof damage occurred. A fire station door was damaged. The damage path continued into Perry County.

SPENCER COUNTY --- 0.7 S ST MEINRAD [38.16, -86.82], 1.2 ESE ST MEINRAD [38.17, -86.80]

06/26/11 01:12 CST	60K	Tornado (EF1, L: 1.22 mi , W: 200 yd)
06/26/11 01:14 CST	0	Source: NWS Storm Survey

The tornado touched down on the southern end of the St. Meinrad Seminary grounds, destroying a cinder block outbuilding and taking 100 feet of roofing off a large metal outbuilding. The tornado also uprooted numerous trees and ripped sections of roofing off several other buildings before moving off to the east-northeast. Peak winds were estimated between 95 and 100 mph. The tornado continued into Perry County.

A bow echo brought locally strong winds and isolated damage. The bow echo was supported by a warm front that extended east-northeast from the southern Plains across the Lower Ohio Valley. A 500 mb shortwave trough moved southeast from the Upper Mississippi Valley toward the Ohio Valley, further enhancing the strength of the mesoscale convective system.

VANDEBURGH COUNTY --- 1.2 N SMYTHE [38.02, -87.48], 1.5 NNE SMYTHE [38.02, -87.47]

06/27/11 11:40 CST	0	Thunderstorm Wind (EG 65 kt)
06/27/11 11:40 CST	0	Source: NWS Storm Survey

A microburst containing peak winds estimated near 75 mph nearly levelled a large building. The building was constructed of wooden beams and sheet metal, similar to many external home garages only larger. At least one other smaller building was destroyed. Several tree limbs were blown down. There was minor damage to a couple of homes, including the loss of a few shingles. The microburst occurred just northwest of exit 10 on Interstate 164. The average path width was one-quarter mile. The length of the damage path was about one-half mile.

WARRICK COUNTY --- 2.0 NE YANKEETOWN [37.94, -87.27]

06/27/11 12:45 CST	40K	Thunderstorm Wind (EG 78 kt)
06/27/11 12:45 CST	0	Source: NWS Storm Survey

A two-ton delivery truck was blown over into a small trailer. A lawn tractor was overturned. Several mainly small trees were uprooted, and several large limbs were broken. A two-story home suffered considerable shingle loss. The peak winds were estimated near 90 mph. The microburst damage area was about 300 yards wide and one-half mile long.

SPENCER COUNTY --- 3.0 SE EUREKA [37.85, -87.18], 2.0 E HATFIELD [37.90, -87.18]

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/27/11 12:57 CST		0.10M	Thunderstorm Wind (EG 78 kt)
	06/27/11 13:00 CST		0	Source: NWS Storm Survey

A "heat burst" occurred in the wake of a line of thunderstorms. About two miles east of Hatfield on Route 66, a large fertilizer auger leg was blown down off a fertilizer storage building. The building sustained minor structural damage to a section of the roof, as well as some limited loss of shingles. Five empty fertilizer wagons were blown up to 100 feet. Several tree limbs were blown down. Peak winds were estimated near 90 mph. The damage area was only about one-quarter mile long and one-quarter mile wide. A heat burst is defined as a localized, sudden increase in surface temperature associated with a thunderstorm, shower, or mesoscale convective system. This heat burst occurred approximately an hour or less following an intense area of thunderstorms that moved through the area. Two witnesses outside during the heat burst experienced temperatures which they believed to be around 100 degrees. The extreme temperatures were said to have only lasted seconds before quickly falling. Heat bursts almost invariably form on the trailing edge of thunderstorm systems. Heat bursts are extremely rare, and this one was especially rare because most heat bursts occur at night. About three miles southeast of Eureka, a trained spotter observed debris in the air above a bending tree line to the south. The wind was accompanied by a roaring sound. This was likely the same heat burst or closely associated with the one near Hatfield.

A mesoscale convective system intensified over the Lower Ohio Valley as it interacted with a moist and increasingly unstable atmosphere. The combination of daytime heating and an unstable southerly wind flow contributed to the intensification of the system, which exhibited bowing structures at times. Westerly winds of 40 to 45 knots in the mid levels of the atmosphere supported the acceleration of the bow echo across the region. Isolated wind damage accompanied the system.

KENTUCKY, Southwest

BALLARD COUNTY --- 2.4 WNW WICKLIFFE [36.98, -89.12], 2.2 NW WICKLIFFE [36.99, -89.11], 0.9 W WICKLIFFE [36.97, -89.10], 1.6 SSW WICKLIFFE [36.95, -89.09]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/03/11 14:00 CST	0	Source: Other Federal Agency

CARLISLE COUNTY --- 1.2 SW BERKELEY [36.79, -89.12], 2.0 W WINNFORD [36.92, -89.11], 0.7 SW WINNFORD [36.91, -89.08], 1.1 SE BERKELEY [36.79, -89.09]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/03/11 14:00 CST	0	Source: Other Federal Agency

FULTON COUNTY --- HICKMAN [36.57, -89.18], 2.0 NW ANNA LYNNE [36.57, -89.27], 3.1 WNW SASSAFRAS RIDGE [36.56, -89.38], 2.3 WSW SASSAFRAS RIDGE [36.54, -89.37]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/03/11 14:00 CST	0	Source: Other Federal Agency

HICKMAN COUNTY --- COLUMBUS [36.77, -89.10], 1.2 WNW HAILWELL [36.69, -89.12], 2.6 WNW HAILWELL [36.69, -89.14], 0.9 W COLUMBUS [36.77, -89.12]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/03/11 14:00 CST	0	Source: Other Federal Agency

The weather pattern began to quiet down after the historic spring river flooding. With high pressure generally in control of the weather, the first half of June was very warm and dry. At the beginning of June, the Mississippi River was still above flood stage from April and May's major and record-setting floods. The Mississippi River flooding in June was relatively very minor compared to the April and May flooding. Some low-lying fields along the river were flooded.

HENDERSON COUNTY --- 1.8 ENE BASKETT [37.88, -87.44]

06/05/11 09:55 CST	0	Funnel Cloud
06/05/11 09:55 CST	0	Source: Public

The general public reported a funnel cloud along U.S. Highway 60 between Spottsville and the Daviess County line.

DAVIESS COUNTY --- DELAWARE [37.68, -87.40]

06/05/11 10:02 CST	0	Thunderstorm Wind (EG 52 kt)
06/05/11 10:02 CST	0	Source: Trained Spotter

A trained spotter estimated a wind gust to 60 mph.

DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/05/11 10:11 CST		0	Thunderstorm Wind (EG 52 kt)
	06/05/11 10:11 CST		0	Source: Trained Spotter

A wind gust to 60 mph was estimated by a spotter for a local television station.

HOPKINS COUNTY --- WHITE PLAINS [37.18, -87.38]

06/05/11 10:30 CST	2K	Thunderstorm Wind (EG 52 kt)
06/05/11 10:30 CST	0	Source: Broadcast Media

Small trees of two to three inches in diameter were snapped.

MUHLENBERG COUNTY --- CENTRAL CITY [37.30, -87.13]

06/05/11 10:35 CST	20K	Thunderstorm Wind (EG 52 kt)
06/05/11 10:35 CST	0	Source: Public

Numerous trees and power lines were down.

MUHLENBERG COUNTY --- CENTRAL CITY [37.30, -87.13]

06/05/11 10:46 CST	20K	Thunderstorm Wind (EG 61 kt)
06/05/11 10:46 CST	0	Source: Trained Spotter

Large trees and power lines were blown down. A trained spotter estimated wind gusts around 70 mph.

A mesoscale convective system that originated over the Mid-Mississippi Valley moved southeast across the Pennyryle region of western Kentucky. The system moved along the northern periphery of a 500 mb ridge that was centered over the Tennessee Valley and southern Plains.

MCCRACKEN COUNTY --- REIDLAND [37.02, -88.53]

06/09/11 17:50 CST	0	Hail (0.88 in)
06/09/11 17:50 CST	0	Source: NWS Employee

MCCRACKEN COUNTY --- 1.9 NNE SHADY GROVE [37.00, -88.50], 1.1 NE SHADY GROVE [36.99, -88.51]

06/09/11 17:55 CST	25K	Thunderstorm Wind (EG 56 kt)
06/09/11 17:55 CST	0	Source: Amateur Radio

An amateur radio antenna tower was blown down. Tree limbs were blown down. Some shingles were blown off a house. All of the damage occurred within a mile of exit 16 on Interstate 24.

MCCRACKEN COUNTY --- REIDLAND [37.02, -88.53]

06/09/11 17:55 CST	0	Hail (1.00 in)
06/09/11 17:55 CST	0	Source: Public

LIVINGSTON COUNTY --- SMITHLAND [37.13, -88.40]

06/09/11 18:30 CST	0	Hail (0.75 in)
06/09/11 18:30 CST	0	Source: Public

An isolated severe thunderstorm developed in the vicinity of a weak stationary front that was over the Lower Ohio Valley.

TRIGG COUNTY --- 4.0 N CADIZ [36.93, -87.82]

06/11/11 19:26 CST	0	Thunderstorm Wind (EG 52 kt)
06/11/11 19:26 CST	0	Source: Trained Spotter

A trained spotter estimated a wind gust to 60 mph.

TRIGG COUNTY --- CADIZ [36.87, -87.82]

06/11/11 19:33 CST	1K	Thunderstorm Wind (EG 50 kt)
06/11/11 19:33 CST	0	Source: Public

Several large tree limbs were blown down.

Scattered thunderstorms accompanied a cold front as it moved southeast across western Kentucky. A couple of the storms produced damaging winds.

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DAVIESS COUNTY --- WHITESVILLE [37.68, -86.88]				
	06/15/11 15:15 CST		0	Hail (1.00 in)
	06/15/11 15:15 CST		0	Source: Trained Spotter
WEBSTER COUNTY --- PROVIDENCE [37.40, -87.77]				
	06/15/11 15:53 CST		0	Hail (0.75 in)
	06/15/11 15:53 CST		0	Source: COOP Observer
MUHLENBERG COUNTY --- 4.0 SSE GREENVILLE [37.15, -87.15]				
	06/15/11 16:53 CST		0	Hail (1.00 in)
	06/15/11 16:53 CST		0	Source: CoCoRaHS
Winds gusted to 45 mph with the storm.				
MUHLENBERG COUNTY --- 2.2 SSW GREENVILLE [37.17, -87.20]				
	06/15/11 16:55 CST		0	Hail (1.00 in)
	06/15/11 16:55 CST		0	Source: Emergency Manager
MUHLENBERG COUNTY --- 2.2 SSW GREENVILLE [37.17, -87.20]				
	06/15/11 16:55 CST		20K	Thunderstorm Wind (EG 65 kt)
	06/15/11 16:55 CST		0	Source: Emergency Manager
Straight-line wind damage occurred along Highway 171. One barn was damaged, with six-by-six foot poles snapped. The barn roof was blown 100 yards. Several trees were blown down. A two-foot diameter oak tree was snapped.				
TRIGG COUNTY --- 3.3 WSW MAGGIE [36.71, -87.81]				
	06/15/11 17:03 CST		0	Hail (1.00 in)
	06/15/11 17:03 CST		0	Source: Emergency Manager
The hail was reported at the intersection of Highways 139 and 164.				
Scattered thunderstorms developed along and ahead of a cold front. The front extended from a low pressure center over the Great Lakes region southward across Illinois into western Tennessee.				
FULTON COUNTY --- FULTON [36.52, -88.87]				
	06/18/11 09:14 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/18/11 09:14 CST		0	Source: Newspaper
A large sign was toppled. Tree limbs were blown down.				
Numerous thunderstorms developed in the vicinity of a warm front that was located over central Missouri and central Illinois. The storms organized into a mesoscale convective system that propagated southeastward across western Kentucky.				
MCCRACKEN COUNTY --- (PAH)BARKLEY ARPT PA [37.07, -88.77]				
	06/19/11 04:05 CST		0	Heavy Rain
	06/19/11 05:05 CST		0	Source: ASOS
Nearly one inch of rain fell within an hour at Barkley Regional Airport.				
DAVIESS COUNTY --- 0.5 W OWENSBORO [37.77, -87.13]				
	06/19/11 04:55 CST		0	Thunderstorm Wind (MG 51 kt)
	06/19/11 04:55 CST		0	Source: Trained Spotter
A wind gust to 59 mph was measured on the west side of Owensboro.				
HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]				
	06/19/11 05:00 CST		0	Thunderstorm Wind (MG 52 kt)
	06/19/11 05:00 CST		0	Source: Trained Spotter
A measured wind gust to 60 mph was observed.				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TRIGG COUNTY --- 3.9 SW CADIZ [36.83, -87.87]				
	06/19/11 05:00 CST		0	Heavy Rain
	06/19/11 07:00 CST		0	Source: COOP Observer
A co-operative observer measured 1.92 inches from the early morning storms.				
HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]				
	06/19/11 05:05 CST		0	Heavy Rain
	06/19/11 07:00 CST		0	Source: Unknown
There were several reports of urban and small stream flooding around the county.				
CHRISTIAN COUNTY --- 0.5 W HOPKINSVILLE [36.85, -87.49]				
	06/19/11 05:40 CST		0	Hail (0.75 in)
	06/19/11 05:40 CST		0	Source: Trained Spotter
Dime-size hail was reported on the west side of town.				
A long-lived bow echo raced eastward across parts of northwest Kentucky at 50 mph. An extensive rain shield in the wake of the fast-moving line of storms supported development of a cold pool that sustained its growth. A corridor of moderate instability existed in advance of the storms. A 40 to 50-knot southwesterly low-level jet veered more westerly, further aiding in the eastward movement of the bow echo. A westerly rear-inflow jet around 70 knots developed attendant to the developing bow echo.				
BALLARD COUNTY --- OSCAR [37.13, -89.03]				
	06/19/11 15:45 CST		0	Hail (1.50 in)
	06/19/11 15:45 CST		0	Source: Public
Hailstones ranged from half-dollar size to nearly the size of golf balls.				
BALLARD COUNTY --- LA CENTER [37.07, -88.98]				
	06/19/11 15:56 CST		0	Hail (1.00 in)
	06/19/11 15:56 CST		0	Source: Public
BALLARD COUNTY --- KEVIL [37.08, -88.90]				
	06/19/11 16:05 CST		0	Hail (0.75 in)
	06/19/11 16:05 CST		0	Source: Trained Spotter
MCCRACKEN COUNTY --- WOODVILLE [37.10, -88.88]				
	06/19/11 16:05 CST		0	Hail (1.00 in)
	06/19/11 16:05 CST		0	Source: Emergency Manager
An isolated severe thunderstorm erupted during the hottest and most unstable time of the day. A weak mid-level impulse crossing the Mid-Mississippi Valley may have enhanced large scale ascent enough to initiate the storm. The storm produced large hail across central and northern Ballard County and extreme western McCracken County before weakening.				
CHRISTIAN COUNTY --- (HOP)FT CAMPBELL AAF [36.67, -87.50]				
	06/21/11 07:10 CST		0	Thunderstorm Wind (MG 53 kt)
	06/21/11 07:10 CST		0	Source: AWOS
The automated observing system at the Fort Campbell airfield measured a wind gust to 61 mph.				
GRAVES COUNTY --- 1.1 W HICKORY [36.82, -88.65]				
	06/21/11 13:25 CST		0	Heavy Rain
	06/21/11 13:45 CST		0	Source: Trained Spotter
A trained spotter measured 0.60 inches of rain within 20 minutes.				
GRAVES COUNTY --- 1.1 W HICKORY [36.82, -88.65]				
	06/21/11 13:36 CST		0	Heavy Rain
	06/21/11 14:06 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A trained spotter measured 1.84 inches of rain in 30 minutes.				
LIVINGSTON COUNTY --- 2.6 SE BIRDSVILLE [37.19, -88.42]				
	06/21/11 14:10 CST		2K	Thunderstorm Wind (EG 52 kt)
	06/21/11 14:10 CST		0	Source: Emergency Manager

Trees were down across Highway 137 near U.S. Highway 60. The road was blocked.

Thunderstorms moved across western Kentucky in a very moist and moderately unstable air mass. A couple of the storms reached severe levels. The storms attained some organization as a result of deep-layer shear values around 40 knots. A cold front moving across Missouri further aided storm development.

MARSHALL COUNTY --- AURORA [36.78, -88.13]				
	06/25/11 10:28 CST		0	Hail (0.88 in)
	06/25/11 10:28 CST		0	Source: Emergency Manager

Widely scattered thunderstorms developed as the leading edge of warmer and more humid air advanced into the region. Isolated large hail occurred.

DAVIESS COUNTY --- 3.3 NNE MACEO [37.92, -86.98]				
	06/26/11 01:07 CST		10K	Thunderstorm Wind (EG 87 kt)
	06/26/11 01:07 CST		0	Source: NWS Storm Survey

A barn was destroyed. At least 30 trees were blown down in a low area along Blackford Creek. The tree blowdown covered about a half-mile stretch along the creek. Embedded within this area was evidence of a small "gustnado," a brief vertically-spinning column of air that is ground-based and not rooted in the storm cloud. The wind speeds increased to as much as 100 mph within the brief spin-up, snapping trees. The damage was in the extreme northeast corner of the county along the Ohio River and the Hancock County line. The damage continued into Hancock County.

A bow echo brought locally strong winds and isolated damage. The bow echo was supported by a warm front that extended east-northeast from the southern Plains across the Lower Ohio Valley. A 500 mb shortwave trough moved southeast from the Upper Mississippi Valley toward the Ohio Valley, further enhancing the strength of the mesoscale convective system.

BALLARD COUNTY --- BARLOW [37.05, -89.05], 1.7 ENE KEVIL [37.09, -88.87]				
	06/26/11 06:50 CST		0	Heavy Rain
	06/26/11 08:45 CST		0	Source: Emergency Manager

Up to four inches of water covered low-lying areas in the Barlow city limits. Highway 1367 was flooded near the McCracken County line. A trained spotter in Ingleside measured 5.25 inches in about five hours. In LaCenter, a spotter measured 4.5 inches.

MCCRACKEN COUNTY --- 1.0 NE WOODLAWN [37.06, -88.56], 0.9 E ROWLANDTOWN [37.10, -88.61], 2.0 NNW CECIL [37.12, -88.69], 1.7 ESE RAGLAND [37.16, -88.87], 3.0 SSW LAMONT [37.01, -88.83]				
	06/26/11 07:35 CST		0.12M	Flash Flood (due to Heavy Rain)
	06/26/11 09:00 CST		0	Source: Trained Spotter

In Paducah, several vehicles were stranded beneath a railroad overpass on U.S. Highway 62. Vehicles were stalled out on at least one other flooded roadway. One of the vehicles was a van with three children inside. A tow truck successfully pulled the van out of the water. Numerous other traffic issues occurred in Paducah due to water on the roadways. There was minor flooding of several residences in Paducah. Water was deep enough to enter vehicles on U.S. Highway 62 in Paducah. A lot of overflow was reported in places that don't normally flood near the Ballard County line. On the west side of Paducah, flash flooding of a creek damaged a small bridge, floated two vehicles, and entered an apartment.

GRAVES COUNTY --- 3.1 NNW KANSAS [36.94, -88.74], 3.9 NE KANSAS [36.94, -88.67]				
	06/26/11 07:50 CST		0	Heavy Rain
	06/26/11 09:15 CST		0	Source: Newspaper

The bridge along Kentucky Highway 1241 over Mayfield Creek collapsed into the creek. The 160-foot long bridge was already closed due to damage from erosion during the April floods. The combination of heavy rain and pre-existing damage to the bridge piers caused the collapse.

Numerous thunderstorms with torrential rain caused local flooding. The storms were supported by a warm front that extended east-northeast from the southern Plains across the Lower Ohio Valley. A 500 mb shortwave trough moved southeast from the Upper Mississippi Valley toward the Ohio Valley, further enhancing the strength of the mesoscale convective system.

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Photo of street flooding that affected some residences on Clay Street in Paducah on the morning of June 26. Photo taken by Liz Mattingly.

BALLARD COUNTY --- 1.5 WSW KEVIL [37.07, -88.92]

06/27/11 10:46 CST	2K	Thunderstorm Wind (EG 52 kt)
06/27/11 10:46 CST	0	Source: Emergency Manager

Two trees were blown down on a rural road.

MCCRACKEN COUNTY --- (PAH)BARKLEY ARPT PA [37.07, -88.77]

06/27/11 10:59 CST	0	Thunderstorm Wind (MG 54 kt)
06/27/11 10:59 CST	0	Source: ASOS

A wind gust to 62 mph was measured at the National Weather Service at Barkley Regional Airport.

MCCRACKEN COUNTY --- 1.5 ESE MAXON [37.07, -88.71], 0.2 SSE WOODLAWN [37.05, -88.57]

06/27/11 11:01 CST	70K	Thunderstorm Wind (EG 52 kt)
06/27/11 11:10 CST	0	Source: NWS Employee

A National Weather Service employee estimated a wind gust to 60 mph along U.S. Highway 60 just west of Paducah. At least a dozen trees were blown down in the Paducah area. One tree landed across a roadway. Another tree landed on a house in Paducah. Large tree limbs were blown down on the south side of Paducah. Some limbs were down on cars. Widespread power outages were reported. At the Paducah high school, a fence was damaged at the tennis courts. Track and field equipment was damaged.

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LIVINGSTON COUNTY --- SMITHLAND [37.13, -88.40]				
	06/27/11 11:14 CST		5K	Thunderstorm Wind (EG 56 kt)
	06/27/11 11:14 CST		0	Source: Emergency Manager
Large tree limbs were down. Siding was blown off a house.				
DAVIESS COUNTY --- STANLEY [37.82, -87.25], OWENSBORO [37.77, -87.12]				
	06/27/11 11:40 CST		0	Heavy Rain
	06/27/11 12:12 CST		0	Source: Trained Spotter
Ponding of water was reported on streets in Owensboro. The storm dumped 1.89 inches at Stanley. About two inches was estimated to have fallen at Owensboro. Most of the rain fell within 30 minutes.				
DAVIESS COUNTY --- 0.5 W OWENSBORO [37.77, -87.13], OWENSBORO [37.77, -87.12]				
	06/27/11 11:50 CST		3K	Thunderstorm Wind (MG 53 kt)
	06/27/11 11:58 CST		0	Source: Emergency Manager
Numerous large tree limbs were blown down on the west side of the city, where a wind gust of 61 mph was measured. In downtown Owensboro, a wind gust to 60 mph was measured.				
MUHLENBERG COUNTY --- 0.5 NNW DUNMOR [37.08, -87.00]				
	06/27/11 12:32 CST		3K	Thunderstorm Wind (EG 52 kt)
	06/27/11 12:32 CST		0	Source: Law Enforcement
Two trees were blown down on Route 973 on the northwest side of Dunmor.				
HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]				
	06/27/11 12:35 CST		3K	Lightning
	06/27/11 12:35 CST		0	Source: Emergency Manager
Sporadic power outages occurred due to lightning strikes.				
A mesoscale convective system intensified over the Lower Ohio Valley as it interacted with a moist and increasingly unstable atmosphere. The combination of daytime heating and an unstable southerly wind flow contributed to the intensification of the system, which exhibited bowing structures at times. Westerly winds of 40 to 45 knots in the mid levels of the atmosphere supported the acceleration of the bow echo across the region. Isolated wind damage accompanied the system.				
MISSOURI, Southeast				
BUTLER COUNTY --- FISK [36.78, -90.22], 0.9 ESE FISK [36.78, -90.20], 2.9 SE FISK [36.75, -90.18], 2.3 SSE FISK [36.75, -90.20]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/03/11 14:00 CST		0	Source: River/Stream Gage
The St. Francis River fell below flood stage at Fisk for the first time since April 26. The flooding in June was relatively very minor. Some low-lying fields along the river were flooded.				
CAPE GIRARDEAU COUNTY --- 2.6 NE CAPE GIRARDEAU [37.32, -89.49], 2.7 NNE CAPE GIRARDEAU [37.34, -89.51], 3.1 SE EGYPT MILLS [37.36, -89.44], 3.7 SSE EGYPT MILLS [37.36, -89.43]				
	06/01/11 00:00 CST		20K	Flood (due to Heavy Rain)
	06/30/11 23:59 CST		10K	Source: River/Stream Gage
The Mississippi River remained above flood stage through the month of June. At the Cape Girardeau river gage, there were two separate crests. The river crested at 38.35 feet on the 1st and at 38.40 feet on the 23rd. Both of these crests represented moderate flooding. The flooding in June was considerably less severe than the preceding two months. A couple of flood gates were closed in the Cape Girardeau floodwall. Some low-lying fields, parks, and river access roads were flooded.				
MISSISSIPPI COUNTY --- BIRDS PT [36.97, -89.15], 1.1 NE BIRDS PT [36.98, -89.13], 3.2 ESE BIRDS PT [36.95, -89.10], 1.9 NE DORENA [36.60, -89.21], 5.2 SW PINHOOK STORE [36.68, -89.39]				
	06/01/11 00:00 CST		0	Flood (due to Heavy Rain)
	06/03/11 16:00 CST		0	Source: Other Federal Agency

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The Mississippi River fell below flood stage for the first time since April 19. The flooding in June was relatively very minor compared to the historic flooding in April and May. Levees protecting large parts of the county were detonated by the U.S. Army Corps of Engineers in early May. The levees were opened as part of the activation of the New Madrid Floodway. The floodway was opened to relieve pressure on levees along the lower Ohio River and parts of the Mississippi River. Much of the floodway land is located in Mississippi County. Flooding caused by the intentional levee breaks ended in June, allowing many residents to return to their property.				

NEW MADRID COUNTY --- NEW MADRID [36.60, -89.53], 8.9 SE NEW MADRID [36.51, -89.41], 1.7 SSE BAYOUVILLE [36.63, -89.36], 3.7 E HENDERSON MOUND [36.72, -89.40]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/03/11 18:00 CST	0	Source: River/Stream Gage

The Mississippi River fell below flood stage at New Madrid for the first time since April 19. The flooding in June was relatively very minor compared to the historic flooding in April and May. Levees protecting parts of the county were detonated by the U.S. Army Corps of Engineers in early May. The levees were opened as part of the activation of the New Madrid Floodway. The floodway was opened to relieve pressure on levees along the lower Ohio River and parts of the Mississippi River. Some of the floodway land is located in New Madrid County. Flooding caused by the intentional levee breaks ended in June, allowing many residents to return to their property.

PERRY COUNTY --- 2.9 N WITTENBURG [37.69, -89.53], 1.1 NW SEVENTYSIX [37.73, -89.63], 1.7 E FARRAR [37.70, -89.65], 1.7 NNE WITTENBURG [37.67, -89.52]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/25/11 18:00 CST	0	Source: Other Federal Agency

The Mississippi River flooding in June was relatively minor compared to the April and May flooding. Some low-lying fields along the river were flooded.

SCOTT COUNTY --- COMMERCE [37.15, -89.45], 0.8 ENE COMMERCE [37.15, -89.44], 3.6 SE COMMERCE [37.11, -89.40], 3.1 ESE WASATCH [37.11, -89.42]

06/01/11 00:00 CST	0	Flood (due to Heavy Rain)
06/22/11 20:00 CST	0	Source: Other Federal Agency

The Mississippi River flooding in June was relatively minor compared to the April and May flooding. Some low-lying fields along the river were flooded.

The weather pattern began to quiet down after the historic spring river flooding. With high pressure generally in control of the weather, the first half of June was very warm and dry. At the beginning of June, a couple of rivers were still above flood stage from April and May's major and record-setting floods.

(MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER

06/04/11 12:00 CST	0	Heat
06/04/11 17:00 CST	0	

A strong high in the upper levels of the atmosphere moved northeast over the Mid-Mississippi Valley. Actual air temperatures climbed into the upper 90's. The heat index peaked at 105 degrees at Poplar Bluff.

RIPLEY COUNTY --- DONIPHAN [36.62, -90.82]

06/11/11 14:35 CST	20K	Thunderstorm Wind (MG 55 kt)
06/11/11 14:35 CST	0	Source: Emergency Manager

Numerous trees were down in town. A wind gust to 63 mph was measured.

BUTLER COUNTY --- QULIN [36.60, -90.27]

06/11/11 14:45 CST	0.45M	Thunderstorm Wind (EG 70 kt)
06/11/11 14:45 CST	2	Source: Trained Spotter

Much of the roof of an elementary school was blown off. Debris from the roof knocked down power lines. Some blocks on the west side of the building were knocked in, and a metal awning was smashed. Baseball field fencing and playground equipment were damaged. A window was blown out of a general store. Two children received minor cuts. A large uprooted tree fell on the corner of a mobile home, damaging the roof. Another tree fell on the front porch of a house, blocking the front door. A partially enclosed back porch was damaged. A small steeple was blown off a church, along with two pieces of siding. Tree limbs were down across town. Corn in a nearby field was flattened.

Scattered thunderstorms accompanied a cold front as it moved southeast across southeast Missouri. A couple of the storms produced damaging microbursts.

BUTLER COUNTY --- 3.0 W NEELYVILLE [36.57, -90.55]

06/15/11 03:15 CST	50K	Thunderstorm Wind (EG 61 kt)
06/15/11 03:15 CST	0	Source: Newspaper

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Severe thunderstorm winds blew down four transmission line poles, knocking out power to 2,000 utility customers. Two of the poles were 75-foot poles, and the other two were 55 feet.				
Thunderstorms increased ahead of a cold front that extended from western Missouri to northwest Arkansas. The atmosphere remained moderately to strongly unstable through the night. Couple with at least 40 knots of deep-layer westerly shear, the storms grew into a mesoscale convective system that produced isolated wind damage.				
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CAPE GIRARDEAU COUNTY --- 2.4 NE CAPE GIRARDEAU [37.33, -89.50], 2.9 S EGYPT MILLS [37.36, -89.47]				
	06/15/11 14:15 CST		50K	Thunderstorm Wind (EG 61 kt)
	06/15/11 14:15 CST		0	Source: Trained Spotter
Wind gusts that were estimated near 70 mph bent a flag pole. Numerous tree limbs were blown down, including a large limb on power lines. A few trees fell across homes. Power was knocked out to about 2,500 utility customers.				
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CAPE GIRARDEAU COUNTY --- 2.9 S EGYPT MILLS [37.36, -89.47]				
	06/15/11 14:15 CST		0	Hail (0.75 in)
	06/15/11 14:15 CST		0	Source: Trained Spotter
Scattered thunderstorms developed along and ahead of a cold front. The front extended from a low pressure center over the Great Lakes region southward along the Mississippi Valley.				
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BUTLER COUNTY --- HENDRICKSON [36.90, -90.48]				
	06/17/11 02:16 CST		0	Hail (1.00 in)
	06/17/11 02:16 CST		0	Source: Trained Spotter
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BUTLER COUNTY --- BROSELEY [36.68, -90.25]				
	06/17/11 02:20 CST		0	Hail (1.00 in)
	06/17/11 02:20 CST		0	Source: Law Enforcement
Hail lasted five to ten minutes.				
Scattered thunderstorms developed as a result of increasing southerly winds that brought warmer and more unstable air into the region. A couple of storms produced large hail.				
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CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53]				
	06/18/11 07:30 CST		4K	Heavy Rain
	06/18/11 08:30 CST		0	Source: Broadcast Media
Street flooding occurred. At least one vehicle was stranded in floodwaters.				
Numerous thunderstorms developed in the vicinity of a warm front that was located over central Illinois and central Missouri. The storms organized into a mesoscale convective system that propagated southeastward across southeast Missouri.				
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CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53]				
	06/19/11 03:30 CST		0	Heavy Rain
	06/19/11 04:15 CST		0	Source: Unknown
Street flooding was reported.				
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SCOTT COUNTY --- COMMERCE [37.15, -89.45]				
	06/19/11 03:45 CST		0	Heavy Rain
	06/19/11 04:30 CST		0	Source: Trained Spotter
Numerous roads were flooding. Many streams and creeks were near bankful.				
A mesoscale convective system raced eastward across southeast Missouri at 50 mph. Locally heavy rain accompanied the storms.				
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STODDARD COUNTY --- DEXTER [36.80, -89.95]				
	06/25/11 02:46 CST		0	Hail (1.00 in)
	06/25/11 02:46 CST		0	Source: Trained Spotter
Widely scattered thunderstorms developed as the leading edge of warmer and more humid air advanced into the region. Isolated large hail occurred.				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CARTER COUNTY --- VAN BUREN [37.00, -91.02]				
	06/26/11 15:25 CST		10K	Thunderstorm Wind (EG 52 kt)
	06/26/11 15:25 CST		0	Source: Law Enforcement

Trees were blown down in the community.

An isolated severe thunderstorm occurred during the warmest and most unstable time of the afternoon. The storm occurred in the vicinity of a warm front that extended from the central Plains eastward to southeast Missouri.

STODDARD COUNTY --- DEXTER [36.80, -89.95]				
	06/27/11 09:56 CST		30K	Thunderstorm Wind (EG 56 kt)
	06/27/11 09:56 CST		0	Source: Newspaper

A shop building was destroyed. The front doors of the repair shop were open, which allowed the wind to lift the roof off and damage the east wall. Just prior to the damage, an apparent "gustnado" was videotaped west of the damage site. A swirl of dust and loose debris was headed toward the general direction of the shop building.

A mesoscale convective system intensified over southeast Missouri as it interacted with a moist and increasingly unstable atmosphere. The combination of daytime heating and an unstable southerly wind flow contributed to the intensification of the system. Westerly winds of 40 to 45 knots in the mid levels of the atmosphere supported the acceleration of the system across the region. Isolated wind damage accompanied the system.